

**Sandoval,Loretta**

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**Subject:** Application 10/565,585 (M03B120)

**Application No.:** 10/565,585

**Examiner:** Enda Wong

**Applicants/Appellant(s):** Emmanuel Uzoma  
Okoroafor

**Art Unit:** 1795

**Confirmation No.:** 2673

**Title:** COATING

**Atty. Docket No.:** M03B120

**Filed:** January 20, 2006

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Dear Sandra Sewell,

(571) 272-1047 - Phone

(571) 273-1047 - Fax

Thank you very much for your assistance today.

Following are the documents we filed on January 05, 2011. We also submitted 8 references, as listed on the Transmittal Form, however due to size I have not included them. Kindly let me know if you would like me to send them to you.

1. Electronic Acknowledgement Receipt	3 pages
2. Acknowledgement Receipt	2 pages
3. Transmittal Form	2 pages
4. Appeal Brief	21 pages
5. Petition for Extension of Time	2 pages
6. Monthly Statement of Deposit Account-Jan 2011	1 page
7. Email - EFS Web Receipt	1 page
<b>TOTAL</b>	<b>32 PAGES</b>

Please feel free to contact me if you have any questions or need additional information.

Thank you and kind regards.

*Best,*

*Loretta*

**Loretta Sandoval**

**Intellectual Property Paralegal**

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4/29/2011

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Appeal Brief dated January 05, 2011  
Attorney Docket No. M03B120

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 10/565,585

Examiner: Enda Wong

Applicants/Appellant(s): Emmanuel Uzoma  
Okoroafor

Art Unit: 1795

Title: COATING

Confirmation No.: 2673

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Commissioner for Patents  
MAIL STOP \*\*APPEAL BRIEF - PATENTS\*\*  
P.O. Box 1450  
Alexandria, VA 22313-1450

**APPEAL BRIEF**

Dear Sir/Madam:

Appellant submits herewith an Appeal Brief in the above-referenced matter under  
37 CFR 41.37.

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**I. STATEMENT OF THE REAL PARTY IN INTEREST**

The real party in interest is Edwards Limited, an English company of Manor Royal Crawley, West Sussex, RH10 9LW, United Kingdom, and is the assignee of record of the subject application.

**II. RELATED APPEALS AND INTERFERENCES**

Appellant is not aware of any related appeals, judicial proceedings or interferences that may be related to, directly affect, be directly affected by, or have a bearing on the Board's decision on this appeal.

**III. STATUS OF CLAIMS**

Claims 1-43 are pending in the application. Claims 5, 9, 15-23, 25, and 27-43 are withdrawn from consideration. No claim has been cancelled. Claims 1-4, 6-8, 10-14, 24, and 26 stand rejected by the Examiner, and are the claims on appeal.

**IV. STATUS OF AMENDMENTS**

No amendment has been filed subsequent to the Final Office Action dated April 14, 2010.

**V. SUMMARY OF CLAIMED SUBJECT MATTER**

The invention as described by independent claim 1 is directed to a method of forming a coating on a plastics substrate (*e.g.*, FIG. 2(b), number 14) comprising the steps of: applying a metallic layer (*e.g.*, FIG. 2(b), number 20) to the plastic substrate

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(*e.g., page 9, lines 4-25*) wherein the metallic layer is selected from the group of metals including at least magnesium, titanium, tantalum, zirconium, niobium, hafnium, tin, tungsten, molybdenum, vanadium, antimony, bismuth, and alloys of the aforementioned metals (*e.g., page 3, lines 14-20*); and subjecting the metallic layer to electrolytic plasma oxidation, wherein the metallic layer is anodically charged and immersed in an aqueous electrolytic solution for forming at least a sintered ceramic oxide layer (*e.g., FIG. 2(b), number 32*) on the metallic layer (*e.g., page 9, line 27 – page 10, line 9*).

The electrolytic plasma oxidation is performed by applying a relatively high voltage to the metallic layer on the plastic substrate. “The coating is suitably formed by immersing an anodically charged metal coated part in an alkaline electrolyte... using a stainless steel bath acting as the counter electrode and applying an AC voltage in excess of 250V to the part.” *See, the specification, page 6, lines 18-22.* As a result, a sintered ceramic oxide layer can be formed on the metallic layer, thereby providing the underlying plastic substrate with the desired structural strength. *See, the specification, page 6, lines 22-24.*

## VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

- A. Whether Examiner errs in rejecting claims 1-3, 6, 8, and 12-14 under 35 USC 103(a) as being unpatentable over US Patent Application Publication No. 2004/0247904 to Chan (hereinafter referred to as “Chan”) in view of US Patent No. 5,811,194 to Kurze et al. (hereinafter referred to as “Kurze”).

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- B. Whether Examiner errs in rejecting claims 4 and 10 under 35 USC 103(a) as being unpatentable over Chan in view of Kurze and US Patent No. 6,029,571 to Johner et al. (hereinafter referred to as "Johner").
- C. Whether Examiner errs in rejecting claim 7 under 35 USC 103(a) as being unpatentable over Chan in view of Kurze and JP Patent Application Publication No. 54-31479 (hereinafter referred to as "the '479 patent").
- D. Whether Examiner errs in rejecting claim 11 under 35 USC 103(a) as being unpatentable over Chan in view of Kurze, and Wu, M. T., Leu, I.C., and Hon, M. H., 2002, Effect of polishing pretreatment on the fabrication of ordered nanopore arrays on aluminum foils by anodization, J. Vac. Sci. Technol., Vol. B 20(3), pp. 776-782 (hereinafter referred to as "Wu").
- E. Whether Examiner errs in rejecting claim 24 under 35 USC 103(a) as being unpatentable over Chan in view of Kurze, International Patent Application Publication No. WO 02/25113 to Hasert et al. (hereinafter referred to as "the '113 patent") and US Patent No. 6,655,937 to Hasert et al. (hereinafter referred to as "the '937 patent").
- F. Whether Examiner errs in rejecting claim 26 under 35 USC 103(a) as being unpatentable over Chan in view of Kurze and US Patent No. 4,647,347 to Schoener et al. (hereinafter referred to as "Schoener").
- G. Whether claims 1-4, 6-8, 10-14, 24, and 26 are unpatentable under 35 USC 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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## VII. ARGUMENT

### A. *Examiner errs in rejecting claims 1-3, 6, 8 and 12-14 under 35 USC 103(a) as being unpatentable over Chan in view of Kurze.*

1. *Chan fails to teach or suggest "subjecting the metallic layer to electrolytic plasma oxidation" as disclosed by claim 1.*

Examiner acknowledges that Chan does not teach the claimed electrolytic plasma oxidation. *See, the Final Office Action, page 9, lines 1-4.* However, Examiner asserts that Kurze teaches plasma-chemical anodic oxidation. *See, the Final Office Action, page 9, line 19.* Examiner further asserts that it would have been obvious to one having ordinary skill in the art at the time when invention was made to have modified the electrolytic oxidation described by Chan in view of Kurze, because plasma-chemical anodic oxidation would have produced an oxide ceramic layer having not only high alternating bending strength, but also resistance to abrasion and corrosion.

2. *Appellant respectfully contends that it would not have been obvious for a person skilled in the art to modify Chan by replacing its non-plasma electrolytic oxidation method with the plasma-chemical anodic oxidation technique taught by Kurze.*

The voltage required in an electrolytic plasma oxidation process is much higher than the voltage range for the electrolytic oxidation method used by Chan. A relatively high voltage is required in an electrolytic plasma oxidation process to create a partial oxygen plasma presence at the metal/gas/electrolyte phase boundary. For example, in the claimed invention, the voltage required for the electrolytic plasma oxidation is in excess

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of 250 volts. *See, the specification, page 6, lines 18-22.* "For producing particularly wear-resistant oxide ceramic layers on aluminium or its alloys by plasma-chemical anodic oxidation..., it is possible to utilize even very significantly diluted electrolytic baths..., *as described by Kurze on col. 3, lines 1-7.* "Because of the low conductivity of this electrolytic bath, the voltage end value may reach up to 2000 V." *See, col. 3, lines 9-11.*

Chan, however, teaches a much lower range of voltages for its electrolytic oxidation method. In Chan, the voltage range varies between 0 and 110 volts, which is much lower than the voltage required for an electrolytic plasma oxidation process. *See, paragraph [0032].*

3. *Electrolytic plasma oxidation would defeat Chan's intended purpose, and therefore it would not have been obvious for a person skilled in the art to replace Chan's electrolytic oxidation method with the electrolytic plasma oxidation technique.*

Chan is about varying the voltage applied to an Al/Ti alloy during an electrolytic oxidation process in order to obtain different colors from the alloy oxide. *See, paragraph [0021].* By varying the voltage in the range between 0 and 110 volts, different colors of the alloy oxide can be obtained. *See, paragraph [0032].* For example, a voltage of 25 volts would produce the alloy oxide in dark blue, and a voltage of 100 volts would produce the alloy oxide in blue purple. *See, table 1.*

As discussed above, electrolytic plasma oxidation would require a voltage outside the range disclosed by Chan. If the electrolytic plasma oxidation were used in Chan's process, none of the colors listed in Chan's table 1 would have been produced, because of



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the high voltages required by the electrolytic plasma oxidation process. Thus, using the electrolytic plasma oxidation in Chan's process would defeat its intended purpose, which is to obtain different colors by applying low voltages to the Al/Ti alloy. If proposed modification would render the prior art invention being modified unsatisfactory for its intended purpose, then there is no suggestion or modification to make the proposed modification. *In re Gordon*, 733 F.2d 900 (Fed. Cir. 1984). Accordingly, Appellant respectfully submits that it would not have been obvious for a person skilled in the art to replace Chan's electrolytic oxidation method with the electrolytic plasma oxidation technique.

4. *Claims 2-3, 6, 8 and 12-14 are patentable over Chan in view of Kurze under 35 USC 103(a) by virtue of their dependency from claim 1.*

Claims 2-3, 6, 8 and 12-14 depend from independent claim 1 and include all the limitations recited therein. As such, Appellant respectfully submits that Claims 2-3, 6, 8 and 12-14 are patentable over Chan in view of Kurze under 35 USC 103(a) by virtue of their dependency from claim 1.

- B. *Claim 4 and 10 are patentable over Chan in view of Kurze and Johner under 35 USC 103(a) by virtue of their dependency from claim 1.*

Claims 4 and 10 depend from independent claim 1 and include all the limitations recited therein. As such, Appellant respectfully submits that claims 4 and 10 are patentable over Chan in view of Kurze and Johner under 35 USC 103(a) by virtue of their dependency from claim 1.

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**C. Claim 7 is patentable over Chan in view of Kurze and the '479 patent under 35 USC 103(a) by virtue of its dependency from claim 1.**

Claim 7 depends from independent claim 1 and includes all the limitations recited therein. As such, Appellant respectfully submits that claim 7 is patentable over Chan in view of Kurze and the '479 patent under 35 USC 103(a) by virtue of its dependency from claim 1.

**D. Claim 11 is patentable over Chan in view of Kurze, and Wu under 35 USC 103(a) by virtue of its dependency from claim 1.**

Claim 11 depends from independent claim 1 and includes all the limitations recited therein. As such, Appellant respectfully submits that claim 11 is patentable over Chan in view of Kurze, and Wu under 35 USC 103(a) by virtue of its dependency from claim 1.

**E. Claim 24 is patentable over Chan in view of Kurze, the '194 patent, and the '937 patent under 35 USC 103(a) by virtue of its dependency from claim 1.**

Claim 24 depends from independent claim 1 and includes all the limitations recited therein. As such, Appellant respectfully submits that claim 24 is patentable over Chan in view of Kurze, the '194 patent, and the '937 patent under 35 USC 103(a) by virtue of its dependency from claim 1.

**F. Claim 26 is patentable over Chan in view of Kurze, and Schoener under 35 USC 103(a) by virtue of its dependency from claim 1.**

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Claim 26 depends from independent claim 1 and includes all the limitations recited therein. As such, Appellant respectfully submits that claim 26 is patentable over Chan in view of Kurze, and Schoener under 35 USC 103(a) by virtue of its dependency from claim 1.

**G. Appellant presents no argument against the rejections against claims 1-4, 6-8, 10-14, 24, and 26 under 35 USC 112, second paragraph, and will amend the claims to overcome the rejections upon a decision by the Board of Patent Appeals on the above-discussed issues.**

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Appellant respectfully submits that the Examiner is incorrect in rejecting claims 1-4, 6-8, 10-14, 24, and 26 under 35 USC 103(a), and that all those claims are drawn to a novel subject matter, patentably distinguishable over the prior art of record. Accordingly, Appellant respectfully requests that the Examiner's rejections under 35 USC 103(a) be reversed.

Respectfully submitted,

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### VIII. CLAIMS APPENDIX

1. (Previously Presented) A method of forming a coating on a plastics substrate comprising the steps of:

applying a metallic layer to the plastic substrate wherein the metallic layer is selected from the group of metals including at least magnesium, titanium, tantalum, zirconium, niobium, hafnium, tin, tungsten, molybdenum, vanadium, antimony, bismuth, and alloys of the aforementioned metals; and

subjecting the metallic layer to electrolytic plasma oxidation, wherein the metallic layer is anodically charged and immersed in an aqueous electrolytic solution for forming at least a sintered ceramic oxide layer on the metallic layer.

2. (Original) The method according to Claim 1 wherein the group of metals further includes aluminium.

3. (Original) The method according to Claim 1 wherein the metallic layer is deposited on the substrate.

4. (Original) The method according to Claim 3 wherein the metallic layer is sprayed on the substrate.

5. (Withdrawn) The method according to Claim 1 wherein the metallic layer is adhered to the substrate.

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6. (Original) The method according to Claim 1 wherein the metallic layer comprises a thickness less than 100um.

7. (Original) The method according to Claim 1 wherein the substrate is roughened prior to applying the metallic layer thereto.

8. (Original) The method according to Claim 1 wherein the metallic layer is formed on a second metallic layer previously applied to the substrate.

9. (Withdrawn) The method according to Claim 1 wherein the metallic layer is formed on a polymeric layer previously applied to the substrate.

10. (Original) The method according to Claim 1 wherein the substrate comprises an epoxy-carbon fibre composite or fibre reinforced plastics material.

11. (Original) The method according to Claim 1 further including the step of smoothening the metallic layer prior to the step of subjecting the metallic layer to electrolytic plasma oxidation.

12. (Original) The method according to Claim 1 wherein the electrolytic plasma oxidation is performed at a pH from 7 to 8.5.

13. (Previously Presented) The method according to Claim 1 wherein the coating

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comprising the metallic layer and the sintered ceramic oxide layer has a thickness less than 100um.

14. (Original) The method according to Claim 13 wherein the thickness is less than 50um.

15. (Withdrawn) The method according to Claim 1 further comprising the step of modifying a physical property of the coating after the step of subjecting the metallic layer to electrolytic plasma oxidation.

16. (Withdrawn) The method according to Claim 1 further comprising the step of at least partially removing an external layer from the metallic layer after the step of subjecting the metallic layer to electrolytic plasma oxidation.

17. (Withdrawn) The method according to Claim 1 further comprising the step of abrasively removing at least part of the metallic layer after the step of subjecting the metallic layer to electrolytic plasma oxidation.

18. (Withdrawn) The method according to Claim 1 further comprising the step of applying a material for reducing the porosity of the coating to the metallic layer after the step of subjecting the metallic layer to electrolytic plasma oxidation.

19. (Withdrawn) The method according to Claim 1 further comprising the step of

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applying a material for enhancing the corrosion resistance of the coating to the metallic layer after the step of subjecting the metallic layer to electrolytic plasma oxidation.

20. (Withdrawn) The method according to Claim 1 further comprising the step of applying a layer comprising at least one organic material selected from the group consisting of a fluorocarbon, polytetrafluoroethylene, Carbon, carbides of Ni, Cr, Mo and W, a paint and a resin after the step of subjecting the metallic layer subjected to electrolytic plasma oxidation.

21. (Withdrawn) The method of forming a coating on a metallic or plastics substrate comprising the steps of:

applying a first metallic layer to the substrate;

applying a second metallic layer on at least a portion of the first metallic layer;

and

subjecting the second metallic layer to electrolytic plasma oxidation to form the coating.

22. (Withdrawn) The method according to Claim 21 wherein the substrate comprises a component of a vacuum pump.

23. (Withdrawn) A vacuum pump component comprising:

a metallic layer on the component and wherein the metallic layer is subjected to electrolytic plasma oxidation.



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24. (Original) The method according to Claim 1 wherein the substrate is a component of a vacuum pump.

25. (Withdrawn) The method according to Claim 1 further comprising the step of treating an external surface of the coating to modify a chemical property of the coating.

26. (Original) The method according to Claim 1 further comprising the step of applying to the metallic layer subjected to electrolytic plasma oxidation a layer formed from at least one metal selected from the group consisting of Mo, Ni, Cr and W.

27. (Withdrawn) A method of forming a coating on a metallic or plastics substrate comprising the steps of:

- applying a layer comprising nickel to substrate;
- applying a layer comprising aluminum to the nickel layer; and
- subjecting the aluminum layer to electrolytic plasma oxidation.

28. (Withdrawn) A vacuum pump component having a surface comprising:

a metallic layer on the surface wherein the metallic layer is selected from the group of metals consisting of aluminum, magnesium, titanium, tantalum, zirconium, neobydium, hafnium, tin, tungsten, molybdenum, vanadium, antimony, bismuth, and alloys of the aforementioned metals; and

wherein the metallic layer is subjected to electrolytic plasma oxidation.

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29. (Withdrawn) A vacuum pump comprising:

a component; and

a metallic layer on the component wherein at least a portion of the metallic layer is oxidized by electrolytic plasma oxidation.

30. (Withdrawn) The vacuum pump of claim 29 wherein the component is selected from the group of vacuum pump components consisting of a composite tube, a regenerative section, a molecular section, a pipe, a housing, a rotor and a stator.

31. (Withdrawn) The vacuum pump of claim 29 wherein the component comprises a metal.

32. (Withdrawn) The vacuum pump of claim 29 wherein the component comprises a plastic.

33. (Withdrawn) The vacuum pump of claim 29 wherein the component comprises an epoxy-carbon fiber composite or fiber reinforced plastics material.

34. (Withdrawn) The vacuum pump of claim 29 wherein the metallic layer is selected from the group of metals consisting of aluminum, magnesium, titanium, tantalum, zirconium, neobytium, hafnium, tin, tungsten, molybdenum, vanadium, antimony,

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bismuth, and alloys of the aforementioned metals and wherein the metallic layer is subjected to electrolytic plasma oxidation.

35. (Withdrawn) The vacuum pump of claim 29 wherein the at least a portion of the metallic layer oxidized by electrolytic plasma oxidation comprises a ceramic.

36. (Withdrawn) The vacuum pump of claim 35 wherein the ceramic comprises a transitional layer.

37. (Withdrawn) The vacuum pump of claim 36 wherein the ceramic further comprises a functional layer comprising a sintered ceramic oxide having a hard crystalline.

38. (Withdrawn) The vacuum pump of claim 37 wherein the ceramic further comprises a surface layer having a lower hardness value and a higher porosity value than the hardness and porosity values of the functional layer.

39. (Withdrawn) A vacuum pump component having a ceramic coating comprising:

- a metallic layer having an outer surface;

- wherein the metallic layer comprises:

- a surface layer extending inwardly from the outer surface of the metallic layer;

- a functional layer extending inwardly from the outer surface of the metallic layer;

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a transitional layer extending inwardly from the functional layer; and  
an unreacted metallic layer extending inwardly from the transitional layer.

40. (Withdrawn) The vacuum pump component of claim 39 wherein at least one of the surface layer, the functional layer and the transitional layer is formed by exposing at least a portion of the metallic layer to electrolytic plasma oxidation.

41. (Withdrawn) The vacuum pump of claim 39 wherein the transitional layer is an adhesive for the ceramic coating.

42. (Withdrawn) The vacuum pump of claim 39 wherein the functional layer comprises a sintered ceramic oxide having a hard crystallite.

43. (Withdrawn) The vacuum pump of claim 39 wherein the surface layer has a lower hardness value and a higher porosity value than the hardness and porosity value of the functional layer.

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# **IX. EVIDENCE APPENDIX**

Following references are relied upon by the Examiner in rejecting the claims of the present application, and cited in this Appeal Brief. Copies of the references are separately attached to this Appeal Brief.

1. US Patent Application Publication No. 2004/0247904 to Chan is relied on by Examiner in the Final Office Action of April 14, 2010.
2. US Patent No. 5,811,194 to Kurze et al. is relied on by Examiner in the Final Office Action of April 14, 2010.
3. US Patent No. 6,029,571 to Johner et al. is relied on by Examiner in the Final Office Action of April 14, 2010.
4. JP Patent Application Publication No. 54-31479 is relied on by Examiner in the Final Office Action of April 14, 2010.
5. Wu, M. T., Leu, I.C., and Hon, M. H., 2002, Effect of polishing pretreatment on the fabrication of ordered nanopore arrays on aluminum foils by anodization, J. Vac. Sci. Technol., Vol. B 20(3), pp. 776-782, is relied on by Examiner in the Final Office Action of April 14, 2010.
6. International Patent Application Publication No. WO 02/25113 to Hasert et al. is relied on by Examiner in the Final Office Action of April 14, 2010.
7. US Patent No. 6,655,937 to Hasert et al. is relied on by Examiner in the Final Office Action of April 14, 2010.
8. US Patent No. 4,647,347 to Schoener et al. is relied on by Examiner in the Final Office Action of April 14, 2010.

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**X. RELATED PROCEEDINGS APPENDIX**

None

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PTO/SB/22 (07-09)

Approved for use through 07/31/2012. OMB 0651-0031  
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<b>PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)</b> <b>FY 2009</b> <i>(Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)</i>		Docket Number (Optional) <b>M03B120</b>																									
Application Number <b>10/565,585</b>		Filed <b>January 20, 2006</b>																									
For <b>COATING</b>																											
Art Unit <b>1795</b>		Examiner <b>Enda Wong</b>																									
<p>This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.</p> <p>The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 15%; text-align: center;"><u>Fee</u></th> <th style="width: 15%; text-align: center;"><u>Small Entity Fee</u></th> <th style="width: 30%;"></th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> One month (37 CFR 1.17(a)(1))</td> <td style="text-align: center;">\$130</td> <td style="text-align: center;">\$65</td> <td>\$ _____</td> </tr> <tr> <td><input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2))</td> <td style="text-align: center;">\$490</td> <td style="text-align: center;">\$245</td> <td>\$ <u>490</u></td> </tr> <tr> <td><input type="checkbox"/> Three months (37 CFR 1.17(a)(3))</td> <td style="text-align: center;">\$1110</td> <td style="text-align: center;">\$555</td> <td>\$ _____</td> </tr> <tr> <td><input type="checkbox"/> Four months (37 CFR 1.17(a)(4))</td> <td style="text-align: center;">\$1730</td> <td style="text-align: center;">\$865</td> <td>\$ _____</td> </tr> <tr> <td><input type="checkbox"/> Five months (37 CFR 1.17(a)(5))</td> <td style="text-align: center;">\$2350</td> <td style="text-align: center;">\$1175</td> <td>\$ _____</td> </tr> </tbody> </table> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p> <p><input type="checkbox"/> A check in the amount of the fee is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director has already been authorized to charge fees in this application to a Deposit Account.</p> <p><input checked="" type="checkbox"/> The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number <u>50-4244</u>.</p> <p><b>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</b></p> <p>I am the <input type="checkbox"/> applicant/inventor.</p> <p><input type="checkbox"/> assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).</p> <p><input checked="" type="checkbox"/> attorney or agent of record. Registration Number <u>60,126</u></p> <p><input type="checkbox"/> attorney or agent under 37 CFR 1.34. Registration number if acting under 37 CFR 1.34 _____</p> <p><u>/Ting-Mao Chao, Reg. No. 60,126/</u> <span style="float: right;"><u>January 05, 2011</u></span></p> <p style="text-align: center;">Signature <span style="float: right;">Date</span></p> <p><u>Ting-Mao Chao</u> <span style="float: right;"><u>408-496-1177 x2222</u></span></p> <p style="text-align: center;">Typed or printed name <span style="float: right;">Telephone Number</span></p> <p>NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.</p> <p><input checked="" type="checkbox"/> Total of <u>1 (one)</u> forms are submitted.</p>					<u>Fee</u>	<u>Small Entity Fee</u>		<input type="checkbox"/> One month (37 CFR 1.17(a)(1))	\$130	\$65	\$ _____	<input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2))	\$490	\$245	\$ <u>490</u>	<input type="checkbox"/> Three months (37 CFR 1.17(a)(3))	\$1110	\$555	\$ _____	<input type="checkbox"/> Four months (37 CFR 1.17(a)(4))	\$1730	\$865	\$ _____	<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$2350	\$1175	\$ _____
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<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$2350	\$1175	\$ _____																								

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**Sandoval,Loretta**

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**From:** Sandoval,Loretta  
**Sent:** Wednesday, January 05, 2011 11:58 AM  
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<b>EFS ID:</b>	9163898
<b>Application Number:</b>	10565585
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	2673
<b>Title of Invention:</b>	Coating
<b>First Named Inventor/Applicant Name:</b>	Emmanuel Uzoma Okoroafor
<b>Customer Number:</b>	71134
<b>Filer:</b>	Ting-Mao Chao/Loretta Sandoval
<b>Filer Authorized By:</b>	Ting-Mao Chao
<b>Attorney Docket Number:</b>	M03B120
<b>Receipt Date:</b>	05-JAN-2011
<b>Filing Date:</b>	20-JAN-2006
<b>Time Stamp:</b>	14:54:24
<b>Application Type:</b>	U.S. National Stage under 35 USC 371

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	M03B120US_AB_Transmittal_Jan11.pdf	276888 630344f85b69693c5c8b4116351b506cb8c0a976	no	2
<b>Warnings:</b>					
<b>Information:</b>					
2	Appeal Brief Filed	M03B120US_Appl_Brf_Jan11.pdf	218210 535d51b6c5f2f8cd6f26ee/d7462d23ca1ae3b6c	no	21
<b>Warnings:</b>					
<b>Information:</b>					
3	Extension of Time	M03B120US_Appl_Brf_EOT_Jan11.pdf	322750 c154164ed12f3104bffcba66b0c1ddbe0c1863f0	no	2
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<b>Information:</b>					
4	Miscellaneous Incoming Letter	M03B120US_Appl_Brf_US20040247904_01.pdf	431267 79kcf969ca96692bcb3ba6ed4eac75aba6a51	no	7
<b>Warnings:</b>					
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5	Miscellaneous Incoming Letter	M03B120US_Appl_Brf_US5811194_02.pdf	307179 7dd01488b07ff0d02ef1977e854e942c8d5e10761	no	4
<b>Warnings:</b>					
<b>Information:</b>					
6	Miscellaneous Incoming Letter	M03B120US_Appl_Brf_US6029571_03.pdf	423394 c4322f465e9a7b314ca453ba9be2de367de1d260e	no	7
<b>Warnings:</b>					
<b>Information:</b>					
7	Miscellaneous Incoming Letter	M03B120US_Appl_Brf_JP54031479_04.pdf	241130 fb36e36acbb2cd91b2be8bbff6775132e32e8f420	no	7
<b>Warnings:</b>					
<b>Information:</b>					
8	Miscellaneous Incoming Letter	M03B120US_Appl_Brf_NPL_Wu_2002_05.pdf	955022 3ad2ec4bd0748190a9d4a2e505bb16df3d8d0b49	no	7
<b>Warnings:</b>					
<b>Information:</b>					

9	Miscellaneous Incoming Letter	M03B120US_Appl_Brf_WO200 2225113_06.pdf	552575 31c8a7623a61ee9e1de9cfe617423a52d58 de519	no	16
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10	Miscellaneous Incoming Letter	M03B120US_Appl_Brf_US6655 937_07.pdf	241231 2aaccd2ac6c788a93955bc13e341aa0a730f 62dd	no	4
<b>Warnings:</b>					
<b>Information:</b>					
11	Miscellaneous Incoming Letter	M03B120US_Appl_Brf_US4647 347_08.pdf	477217 c6e1c1bd3aac9d101b2badcaede6408e235 3352e	no	8
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12	Fee Worksheet (PTO-875)	fee-info.pdf	31879 5de1001012820c89c0a0e6f4cd905e4cb67a e215	no	2
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EFS ID	9163898
Application Number	10565585
Confirmation Number	2673
Title	Coating
First Named Inventor	Emmanuel Uzoma Okoroafor
Customer Number or Correspondence Address	71134
Filed By	Ting-Mao Chao/Loretta Sandoval
Attorney Docket Number	M03B120
Filing Date	20-JAN-2006
Receipt Date	05-JAN-2011
Application Type	U.S. National Stage under 35 USC 371

**Application Details**

Submitted Files	Page Count	Document Description	File Size	Warnings
M03B120US_AB_Transmittal_Jan11.pdf	2	Miscellaneous Incoming Letter	276888 bytes	 PASS
M03B120US_Appl_Brf_Jan11.pdf	21	Appeal Brief Filed	218210 bytes	 PASS
M03B120US_Appl_Brf_EOT_Jan11.pdf	2	Extension of Time	322750 bytes	 PASS
M03B120US_Appl_Brf_US20040247904_01.pdf	7	Miscellaneous Incoming Letter	431267 bytes	 PASS
M03B120US_Appl_Brf_US5811194_02.pdf	4	Miscellaneous Incoming Letter	307179 bytes	 PASS
M03B120US_Appl_Brf_US6029571_03.pdf	7	Miscellaneous Incoming Letter	423394 bytes	 PASS
M03B120US_Appl_Brf_JP54031479_04.pdf	7	Miscellaneous Incoming Letter	241130 bytes	 PASS
M03B120US_Appl_Brf_NPL_Wu_2002_05.pdf	7	Miscellaneous Incoming Letter	955022 bytes	 PASS

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